

## INDEX TO VOL. I.

---

### A.

*Acarphæa*, 200.  
*Achyropappus*, 199.  
     *Woodhousei*, 199.  
*Actinea integrifolia*, 201, 205.  
*Actinolepis*, 197.  
     *anthemoides*, 197.  
     *coronaria*, 197.  
     *lanosa*, 198.  
     *nivea*, 198.  
     *multicaulis*, 198.  
     *mutica*, 198.  
     *tenella*, 198.  
     *Wallacei*, 198.  
 Adams, C. F., Address as President, 297.  
*Amblyolepis*, 201.  
*Ambrina Botrys*, 98.  
     *ambrosioides*, 98.  
     *anthelmintica*, 98.  
*Amida*, 187.  
     *gracilis*, 189.  
     *hirsuta*, 189.  
*Amoreuxia platyphylla*, 92.  
*Anisocarpus*, 187.  
     *Bolanderi*, 188.  
     *madioides*, 188.  
 Antimony, atomic weight, 299.  
*Aphanisma*, 84, 90.  
     *blitoides*, 90.  
 Appropriations, 231, 298, 302.  
*Arctium*, 207.  
*Artemisia*, 205.  
     *Californica*, 205.  
     *Norvegica*, 205.  
     *potentilloides*, 204.  
     *tridentata*, 205.  
*Arthrocnemum*, 125.  
     *ambiguum*, 125.  
     *fruticosum*, 125, 126.  
     *macrostachyum*, 126.

### Asexual Growth from Fern Prothallus, 68.

*Asmanite*, 63.  
*Atriplex*, 83, 84, 103.  
     *acanthocarpa*, 105, 117.  
     *Alaskensis*, 103, 108.  
     *angustifolia*, 107, 109.  
     *arenaria*, 104, 112.  
     *argentea*, 105, 115.  
     *Barclayana*, 105, 113.  
     *Berlandieri*, 120.  
     *bracteosa*, 105, 115.  
     *Breweri*, 106, 119.  
     *Californica*, 104, 110.  
     *canescens*, 106, 120.  
     *confertifolia*, 106, 119.  
     *coronata*, 105, 114.  
     *Coulteri*, 105, 113.  
     *cristata*, 105, 114.  
     *elegans*, 105, 114.  
     *Endolepis*, 104, 110.  
     *expansa*, 105, 116.  
     *Gmelini*, 83, 104, 109.  
     *Gordoni*, 116.  
     *Greggii*, 106, 118.  
     *hastata*, 107.  
     *hortensis*, 83, 103.  
     *hymenelytra*, 106, 119.  
     *laciniata*, 107.  
     *lentiformis*, 106, 118.  
     *leucophylla*, 105, 117.  
     *littoralis*, 107, 109.  
     *microcarpa*, 104, 112.  
     *monilifera*, 104, 111.  
     *Nuttallii*, 105, 116.  
     *occidentalis*, 120.  
     *oppositifolia*, 106, 118.  
     *patula*, 103, 106.  
     *phyllostegia*, 103, 108.  
     *polycarpa*, 106, 117.  
     *Powellii*, 105, 114.  
     *Purshiana*, 107.

- Atriplex pusilla*, 104, 110.  
     *rosea*, 103, 108.  
     *saccaria*, 104, 112.  
     *spicata*, 103, 108.  
     *spinosa*, 119.  
     *Suckleyana*, 104, 111.  
     *Texana*, 104, 113.  
     *Torreyi*, 106, 119.  
     *truncata*, 104, 111.  
     *Wolfii*, 104, 112.  
     *Wrightii*, 104, 113.  
     *zosterifolia*, 104, 109.  
*Atriplicæ*, 83, 84.  
 Auditing Committee, 233.

## B.

- Bæria*, 195.  
     *chrysostoma*, 195.  
     *Fremontii*, 195.  
     *gracilis*, 195.  
     *maritima*, 195.  
     *platycarpa*, 195.  
     *tenerrima*, 195.  
     *uliginosa*, 196.  
*Bahia Bigelovii*, 199.  
     *binternata*, 198.  
     *pedata*, 198.  
     *rubella*, 198.  
     *Wallacei*, 198.  
*Baileya*, 195.  
*Bartlettia*, 206.  
*Batis vermiculata*, 86.  
 Biographical Notices:—  
     Joseph Hale Abbott, 238.  
     Louis Agassiz, 310.  
     John Bachman, 330.  
     Michel Chasles, 344.  
     H. James Clark, 328.  
     Auguste Arthur de la Rive, 356.  
     Charles Delaunay, 297.  
     Philippe Edouard Pouletier de Verneuil, 342.  
     Charles Folsom, 237.  
     James Hadley, 259.  
     P. A. Hansen, 354.  
     Christopher Hansteen, 282.  
     Albert Hopkins, 234.  
     Wilhelm von Kaulbach, 345.  
     Francis Lieber, 245.  
     Justus Liebig, 278.  
     P. C. H. Louis, 308, 337.  
     George Gordon Meade, 253.  
     John Stuart Mill, 285.  
     Henry C. Perkins, 240.

## Biographical Notices:—

- Ira Perley, 331.  
 John Bulkley Perry, 321.  
 Willard Phillips, 324.  
 Jean Victor Poncelet, 337.  
 Hiram Powers, 332.  
 Jacques Adolphe Lambert Que-  
     telet, 355.  
 William John Macquorn Ran-  
     kine, 276.  
 John Lewis Russell, 321.  
 James Savage, 241.  
 Adam Sedgwick, 279.  
 William Starling Sullivant,  
     271.  
 Charles Sumner, 325.  
 Sylvanus Thayer, 235.  
 John Torrey, 262.  
 Daniel Treadwell, 234, 301.  
 Biotite, 37, 46.  
     Analysis of, 58.  
*Blennosperma*, 200, 206.  
*Blepharipappus scaber*, 192, 193.  
*Blitum*, 83, 84, 99.  
     *Bonus-Henricus*, 101.  
     *Californicum*, 101.  
     *capitatum*, 100.  
     *glaucum*, 101.  
     *maritimum*, 100.  
     *Nuttallianum*, 102.  
     *polymorphum*, 100.  
     *rubrum*, 99, 101.  
 Bush, J. G., Analysis of Jefferisite,  
     46.  
*Burrielia*, 195.  
     *chrysostoma*, 196.  
     *Fremontii*, 196.  
     *gracilis*, 196.  
     *lanosa*, 198.  
     *longifolia*, 196.  
     *maritima*, 196.  
     *nivea*, 197, 198.  
     *parviflora*, 196.  
     *platycarpa*, 196.  
     *tenerrima*, 196.  
 C.  
 Calais, 207.  
     *aphantocarpa*, 209.  
     *Bigelovii*, 209.  
     *Bolanderi*, 209.  
     *cyclocarpa*, 210.  
     *Douglasii*, 209, 210, 211.  
     *ericarpa*, 210.  
     *glauca*, 209.

- Calais graciloba*, 208.  
*laciniata*, 209.  
*Lindleyi*, 211.  
*linearifolia*, 211.  
*macrochata*, 211.  
*major*, 208.  
*nutans*, 208.  
*Parryi*, 209.  
*platycarpha*, 210.  
*sylvatica*, 208.  
*tenella*, 209.  
*Calliachyris Fremontii*, 193.  
*Callichroa*, 193.  
*Calliglossa*, 193.  
*Calligonum canescens*, 120.  
*Calycadenia*, 189.  
*cephalotes*, 192.  
*Fremontii*, 191.  
*mollis*, 191.  
*multiglandulosa*, 192.  
*pauciflora*, 191.  
*plumosa*, 190, 192.  
*tenella*, 191.  
*truncata*, 192.  
*villosa*, 192.  
*Carphephorus junceus*, 207.  
*Chenactis*, 200.  
*carphoclinia*, 200.  
*Chæetadelpha*, 218.  
*Wheeleri*, 218.  
*Chæthymenia*, 194.  
*Chenopodiaceæ*, Revision of, 82.  
*Chenopodieæ*, 83, 84.  
*Chenopodina*, 87.  
*depressa*, 89.  
*linearis*, 87, 88, 90.  
*maritima*, 87, 88, 90.  
*Moquini*, 88.  
*prostrata*, 89.  
*Chenopodium*, 84, 93.  
*album*, 94, 95, 96.  
*ambrosioides*, 98.  
*Americanum*, 89.  
*anthelminticum*, 98, 101.  
*aristatum*, 91.  
*Berlandieri*, 95.  
*Bonus-Henricus*, 101.  
*Boscianum*, 94.  
*Botrys*, 98.  
*calceoliforme*, 89.  
*carnosulum*, 99.  
*ficifolium*, 96.  
*Fremontii*, 94, 99.  
*glaucum*, 101.  
*humile*, 100.  
*hybridum*, 96.  
*Chenopodium lanceolatum*, 96.  
*leptophyllum*, 94.  
*maritimum*, 87, 88.  
*multifidum*, 99.  
*murale*, 97.  
*olidum*, 95.  
*polyspermum*, 94, 96.  
*radiatum*, 92.  
*rhombifolium*, 97.  
*rubrum*, 100, 107.  
*salsum*, 88.  
*spinosum*, 122.  
*subspicatum*, 96, 107.  
*urbicum*, 97.  
*Virginicum*, 91.  
*zosteræfolium*, 95, 109.  
*Cirsium*, 207.  
*Cnicus*, 207.  
*Coinogyne*, 194.  
*carnosa*, 194.  
*Committees*, 231, 232, 233, 308, 309.  
*Communications from Messrs.*  
*Cooke, J. P.*, 35, 301.  
*Farlow, W. G.*, 68, 302.  
*Gray, Asa*, 187.  
*Hayes, A. A.*, 73, 308.  
*Lovering, Joseph*, 300, 301.  
*Pickering, E. C.*, 1, 222, 300.  
*Peirce, B.*, 228, 309.  
*Rogers, W. A.*, 127, 300, 309.  
*Shaler, N. S.*, 302.  
*Sharples, S. P.*, 219, 309.  
*Trowbridge, John*, 301.  
*Washburn, E.*, 31.  
*Watson, S.*, 82, 308.  
*Compositæ*, Notes on, 187.  
*Conic Sections*, Graphical Method applied to, 225.  
*Cooke, J. P.*, Atomic Weight of Antimony, 299.  
*Corispermeæ*, 83, 85.  
*Corispermum*, 85, 122.  
*Americanum*, 123.  
*hyssopifolium*, 123.  
*Corrosion of Tin*, 210.  
*Corundum*, Dr. Genth upon, 44, 56.  
*Council, Members of*, 232.  
*Crepis acuminata*, 215.  
*Cooperi*, 214.  
*occidentalis*, 215.  
*Crocidium*, 206.  
*Crossley, Analysis of Vermiculite*, 35.  
*Cryptopleura Californica*, 216.  
*Culsageeite*, 36, 48.

Culsageeite, Analyses of, 57.  
*Cyclolepis platyphylla*, 92.  
*Cyclolobæ*, 84.  
*Cycloloma*, 84, 91.  
     *platyphyllum*, 92.

## D.

Damourite, 39.  
 Damourites, 39.  
     Analysis of, 40.  
*Dichæta*, 196.  
     *Fremontii*, 196.  
     *tenella*, 197.  
     *uliginosa*, 197.  
*Diotis lanata*, 121.  
 Donations received, 301, 302.  
*Dubautia*, 207.  
*Dysodia*, 200.  
     *anthemidifolia*, 201.  
     *porophylloides*, 201.

## E.

Egyptian Hieroglyphics, Transfer  
     of, 302.  
*Endolepis Suckleyana*, 110.  
*Erythremia*, 217.  
*Espejoa*, 194.  
*Eurotia*, 82, 84, 121.  
     *ceratoides*, 121.  
     *lanata*, 121.  
 Everett, W., on Roman family  
     names, 301.  
 Expert Testimony, Committee up-  
     on, 300.  
     Report upon, 31.  
     Action upon report, 300.

## F.

Fellows deceased:—  
     Louis Agassiz, 301, 310.  
     John Bachman, 303, 310.  
     H. J. Clark, 299, 310.  
     John B. Perry, 310.  
     Willard Phillips, 299, 310.  
     Ira Perley, 303, 310.  
     John L. Russell, 293, 310.  
     Charles Sumner, 310.  
 Fellows elected:—  
     C. O. Boutelle, 233.  
     H. P. Bowditch, 233.

## Fellows elected:—

Charles H. Davis, 232.  
 George Lincoln Goodale, 302,  
     310.  
 N. St. J. Green, 233.  
 George W. Hill, 232.  
 George S. Hillard, 300, 310.  
 Ebenezer Rockwood Hoar, 310.  
 H. H. Hunnewell, 233.  
 C. L. Jackson, 233.  
 J. M. Merrick, 233.  
 W. R. Nichols, 233.  
 James E. Oliver, 232.  
 William T. Roepper, 234.  
 C. E. Brown-Séguard, 232.  
 W. W. Story, 232.  
 Finance Committee, 232.  
 Foreign Honorary Members de-  
     ceased:—  
     Michel Chasles, 310.  
     Auguste de la Rive, 301, 310.  
     Philippe Edouard Pouletier de  
         Verneuil, 298, 310.  
     P. A. Hansen, 310.  
     Christopher Hansteen, 298.  
     Wilhelm von Kaulbach, 310.  
     P. C. H. Louis, 303, 310.  
     Carl Friedrich Naumann, 301.  
     Jean Victor Poncelet, 303, 310.  
     Jacques Adolphe Lambert Que-  
         telet, 303, 308, 310.  
 Foreign Honorary Members elect-  
     ed:—  
     Francesco Brioschi, 302, 310.  
     R. J. E. Clausius, 231, 299, 310.  
     Charles Darwin, 302, 308, 310.  
     Charles de Rémusat, 300, 310.  
     J. H. W. Döllén, 234.  
     William Ewart Gladstone, 302,  
         303, 310.  
     Benjamin Jowett, 234.  
     James Martineau, 234.  
     Theodor Mommsen, 234.  
     C. F. Naumann, 231, 310.  
     Karl F. Rammelsburg, 234.  
     George Gabriel Stokes, 302,  
         308, 310.  
     James Joseph Sylvester, 231,  
         299, 310.  
     William Thomson, 234, 303.  
     Friedrich Wöhler, 300, 302,  
         310.  
*Fremontia vermicularis*, 86.  
 Fresnel's Formula, Application of,  
     1.  
 Fuchsite, Analysis of, 42.

## G.

- Gaillardia fimbriata, 204.  
 Genth on Corundum, 44, 56.  
 Geology of Martha's Vineyard, 302.  
 Glass, Polarization by, 21.  
 Glyptopleura, 209.  
   marginata, 211.  
   setulosa, 211.  
 Graphical Method, Application of, 222.  
 Grayia, 82, 85, 121.  
   polygaloides, 122.  
   spinosa, 122.

## H.

- Hallite, 37, 59.  
   Analyses of, 60.  
 Halopeplis, 125.  
 Halostachys, 125.  
   occidentalis, 126.  
 Harpæcarpus, 187.  
   exiguus, 189.  
   madarioides, 189.  
 Hartmannia, 190.  
   ciliata, 192.  
   corymbosa, 191.  
   fasciculata, 191.  
   pungens, 191.  
 Haughton, Prof., Analyses of Damourite, 41.  
 Hecubæa, 201, 205.  
   scorzoneraefolia, 205.  
 Heleniæ, 194.  
 Helenioideæ, 194.  
 Helenium, 201, 202.  
   amphibolum, 202.  
   atropurpureum, 203.  
   autumnale, 202, 204.  
   Bigelovii, 204.  
   Bolanderi, 204.  
   brevifolium, 205.  
   Curtisii, 204.  
   elegans, 202.  
   fimbriatum, 204.  
   grandiflorum, 204.  
   heterophyllum, 202.  
   Hoopesii, 201, 205.  
   laciniatum, 203.  
   lanatum, 205.  
   Mexicanum, 202, 203.  
   micranthum, 203.  
   microcephalum, 202, 203.  
   montanum, 204.

## Helenium nudiflorum, 202, 203.

- Nuttallii, 204.  
 ooclinium, 202.  
 parviflorum, 203.  
 puberulum, 203.  
 quadridentatum, 202.  
 scorzoneraefolium, 205.  
 Seminariense, 203.  
 tenuifolium, 203.  
 Texanum, 202.  
 varium, 203.  
 vernale, 205.  
 Hemizonella, 189.  
   Durandi, 189.  
   minima, 189.  
   parvula, 189.  
 Hemizonia, 189, 191.  
   angustifolia, 190.  
   balsamifera, 190.  
   ciliata, 192.  
   congesta, 191.  
   corymbosa, 190.  
   decumbens, 190.  
   Douglasii, 192.  
   Durandi, 189.  
   fasciculata, 190.  
   filipes, 192.  
   Fitchii, 191.  
   Fremontii, 191.  
   glomerata, 190.  
   luzulaefolia, 191.  
   macradenia, 190.  
   macrocephala, 190.  
   minima, 189.  
   mollis, 191.  
   multicaulis, 190.  
   multiglandulosa, 192.  
   parvula, 189.  
   pauciflora, 191.  
   plumosa, 192.  
   pungens, 190.  
   ramosissima, 190.  
   rudis, 191.  
   sericea, 192.  
   tenella, 191.  
   truncata, 192.  
   virgata, 190.  
 Hieracium Californicum, 214.  
 Hopkirkia anthemoidea, 199.  
 Hunt, T. S., on artificial stone, 303.  
 Hymenonema glaucum, 209.  
   laciniatum, 209.  
 Hymenothrix, 200.  
 Wislizeni, 200.  
 Wrightii, 200.

- Hymenoxys Californica*, 197.  
*calva*, 198.  
*mutica*, 198.

## J.

- Jaumea*, 194.  
*Jaumica*, 194.  
*Jefferisite*, 37, 44.  
 Analyses of, 46.

## K.

- Kochia*, 83, 84, 92.  
*Americana*, 93.  
*atriplicifolia*, 92.  
*dentata*, 92.  
*dioica*, 93, 95, 110.  
*prostrata*, 93.

## L.

- Laphamia dissecta*, 195.  
*Layia*, 193.  
*calliglossa*, 193.  
*carnosa*, 193.  
*chrysanthemoides*, 192, 194.  
*Douglasii*, 194.  
*elegans*, 193.  
*Fremontii*, 193.  
*gaillardiioides*, 193.  
*glandulosa*, 193.  
*heterotricha*, 193.  
*hieracioides*, 193.  
*pentachæta*, 193.  
*platyglossa*, 193.  
*Legacies*, 299.  
*Leptopoda*, 201, 204.  
*brachypoda*, 203.  
*brevifolia*, 204, 205.  
*decurrens*, 204.  
*denticulata*, 204.  
*fimbriata*, 204.  
*Helenium*, 204.  
*incisa*, 204.  
*integrifolia*, 204.  
*pinnatifida*, 205.  
*puberula*, 205.  
*Leptoseris*, 213.  
*sonchoides*, 214.  
*Leucoseris*, 214.  
*Californica*, 214.  
*saxatilis*, 214.  
*tenuifolia*, 214.

- Library Committee, 233.  
*Linosyris squamata*, 207.  
*Lissajous' Curves*, Graphical  
 Method applied to, 226.  
*Lovering, J.*, on Proper Motion of  
 Stars, 300.  
*Luina*, 206.  
*hypoleuca*, 206.  
*Lygodesmia*, 216.  
*aphylla*, 217.  
*exigua*, 217.  
*grandiflora*, 217.  
*juncea*, 217.  
*rostrata*, 217.  
*spinosa*, 217.

## M.

- Macrorhynchus*, 215.  
*angustifolius*, 216.  
*Chilensis*, 216.  
*cynthioides*, 216.  
*Harfordii*, 216.  
*humilis*, 216.  
*Lessingii*, 216.  
*purpureus*, 216.  
*retrorsus*, 216.  
*Madaria*, 187.  
*corymbosa*, 187.  
*elegans*, 187.  
*Madariopsis*, 188.  
*Madaroglossa*, 193.  
*Madia*, 187.  
*Bolanderi*, 188.  
*capitata*, 188.  
*elegans*, 188.  
*filipes*, 189.  
*glomerata*, 189.  
*Nuttallii*, 188.  
*radiata*, 188.  
*sativa*, 188.  
*Madieæ*, 187.  
*Madorella*, 187.  
*dissitiflora*, 189.  
*racemosa*, 189.  
 Magnetic force, Graphical Method  
 applied to, 225.  
*Malacomeris*, 212, 215.  
*incana*, 215.  
*Malacothrix*, 212.  
*Californica*, 212, 213.  
*commutata*, 212, 214.  
*Coulteri*, 212, 213.  
*crepioides*, 214, 215.  
*Fendleri*, 212, 213.

- Malacothrix incana*, 215.  
   *obtusa*, 212, 214.  
   *parviflora*, 214.  
   *platyphylla*, 214.  
   *saxatilis*, 214.  
   *sonchoides*, 212, 213, 214.  
   *tenuifolia*, 214.  
   Torreyi, 212, 213.  
   Xanti, 213.
- Martha's Vineyard, Geology of, 302.
- Maskelyne, Prof., on Asmanite, 63.
- Members, Foreign Honorary. *See*  
   Foreign Honorary Members.
- Memorial on State Survey, 184.
- Micas, Relations of Vermiculites to,  
   35.  
   Senarmont on, 65.  
   Analysis of, 42.
- Microseris, 207.  
   *aphantocarpa*, 208, 209.  
   *Bigelovii*, 209.  
   *cyclocarpa*, 210.  
   *Douglasii*, 210.  
   *Forsteri*, 209.  
   *laciniata*, 209.  
   *leptophylla*, 209.  
   *Lindleyi*, 210.  
   *linearifolia*, 211.  
   *macrochaeta*, 211.  
   *major*, 208.  
   *nutans*, 208.  
   *Parryi*, 209.  
   *platycarpa*, 210.  
   *pygmaea*, 209.  
   *sylvatica*, 208.  
   *troximoides*, 211, 215.
- Monolepis, 83, 84, 102.  
   *chenopodioides*, 83, 102.  
   *Nuttalliana*, 102.  
   *pusilla*, 102.  
   *spathulata*, 102.
- Munroe, C. E., Analysis of Da-  
   mourite, 40.  
   of Hallite, 60.
- Myxine, 301.
- N.
- Nicolletia, 200.
- O.
- Obione *acanthocarpa*, 117, 118.  
   *arenaria*, 112.  
   *argentea*, 115, 116.
- Obione *Barclayana*, 113, 118.  
   *Berlandieri*, 120.  
   *bracteosa*, 115.  
   *canescens*, 116, 118, 120.  
   *confertifolia*, 119.  
   *Coulteri*, 113.  
   *cristata*, 114.  
   *elegans*, 113, 114.  
   *hymenelytra*, 120.  
   *lentiformis*, 118.  
   *leucophylla*, 117.  
   *microcarpa*, 112.  
   *occidentalis*, 120, 121.  
   *phyllostegia*, 108.  
   *polycarpa*, 117.  
   *pusilla*, 110.  
   *radiata*, 114.  
   *spinosa*, 119.  
   *Suckleyana*, 111.  
   *tetraptera*, 120.  
   Torreyi, 119.  
   *truncata*, 111.
- Ocean Lanes for Steamships, 228.
- Officers elected, 232.
- Osmadenia*, 191.  
   *tenella*, 191.
- Oxylepis*, 201, 205.  
   *lanata*, 205.
- Oxyura*, 193.  
   *chrysanthemoides*, 192, 194.
- P.
- Periodic Errors of the Transit Cir-  
   cle, 127.
- Periodic Functions, Graphical  
   Method applied to, 226.
- Perityle, 194.  
   *Emoryi*, 195.  
   *nuda*, 195.
- Phlogopite, 37.
- Polarimeter, New Form of, 298.
- Polarization, Sky, 16.  
   by Glass, 21.
- Prenanthes exigua*, 217.
- Proceedings, Form of Publication,  
   299.
- Psathyrotes*, 206.  
   *scaposa*, 206.  
   *Schottii*, 206.
- Psilochaenia*, 215.
- Pteris Cretica*, Asexual Prothallus  
   Growth, 68.
- Pterochiton canescens*, 120.  
   *occidentale*, 120.



- Ptilomeris*, 197.  
     *affinis*, 198.  
     *anthemoides*, 198.  
     *aristata*, 197.  
     *coronaria*, 197.  
     *mutica*, 198.  
     *tenella*, 198.  
 Public Park in Boston, 309.  
 Publication Committee, 233, 298.  
 Putnam, F. W., on *Myxine*, 300.  
     Transfer of Hieroglyphics, 302.
- R.
- Raillardella*, 207.  
     *argentea*, 207.  
     *scaposa*, 207.  
*Raillardia*, 207.  
 Reflection of Light, Applications of  
     Fresnel's Formula, 1.  
 Reports, 31, 231, 233, 298, 300, 310.  
 Resistance of Air, Graphical Method  
     applied to, 225.  
*Riddellia*, 195.  
*Riddellieæ*, 194, 195.  
 Right Ascensions, Periodic Errors  
     of, 127.  
*Ripidolite*, Analyses of, 50.  
 Roman Family Names, 301.  
 Rose, H., Analysis of Mica, 42.  
*Roubieva*, 84, 99.  
     *ambrosioides*, 98.  
     *anthelmintica*, 98, 101.  
     *multifida*, 99.  
 Rumford Committee, 231, 232.  
     Appropriations by, 298.  
 Rumford Medals, Award, 231.  
     Presentation, 303.  
 Rutherford, Lewis M., and Rum-  
     ford Medals, 231, 303.
- S.
- Salicornia*, 85, 123.  
     *ambigua*, 125.  
     *Bigelovii*, 124.  
     *fruticosa*, 125.  
     *herbacea*, 124, 125.  
     *mucronata*, 124.  
     *radicans*, 125.  
     *Virginica*, 124.  
*Salicornieæ*, 85.  
*Salsola*, 83, 85.  
     *Atriplicis*, 92.  
     *Salsola atriplicifolia*, 92.  
         *Caroliniana*, 85.  
         *depressa*, 89.  
         *dioica*, 118.  
         *Kali*, 85.  
         *latifolia*, 92.  
         *linearis*, 87.  
         *platyphylla*, 92.  
         *prostrata*, 89.  
         *radiata*, 92.  
         *salsa*, 87, 89.  
         *Soda*, 85.  
         *Tragus*, 85.  
*Sarcobatus*, 83, 84, 86.  
     *Maximiliani*, 86.  
     *vermiculatus*, 86.  
 Schafhäutl, Analysis of Fuchsite,  
     42.  
*Schkuhria*, 198.  
     *Bigelovii*, 199.  
     *bitermata*, 199.  
     *Hopkirkii*, 199.  
     *integrifolia*, 199.  
     *Neo-Mexicana*, 199.  
     *pedata*, 199.  
     *Woodhousei*, 199.  
     *Wrightii*, 199.  
*Schoberia*, 87.  
     *Americana*, 89.  
     *calceoliformis*, 89.  
     *occidentalis*, 90.  
*Sclærocarpus exiguus*, 189.  
*Scorzonella*, 208.  
     *laciniata*, 209.  
     *leptosepala*, 209.  
     *nutans*, 208.  
     *sylvatica*, 208.  
 Senarmont, H. de, on Micas, 65.  
 Sharples, S. P., on Zinc Crystals,  
     301.  
     on Pond Water, 299.  
*Shortia Californica*, 197.  
 Sky Polarization, 16.  
 Smith, J. L., Analyses of *Ripido-*  
     *lite*, 50.  
*Sonchus Californicus*, 214.  
*Spirolobæ*, 83.  
*Spirostachys*, 85, 125.  
     *occidentalis*, 125.  
     *Ritteriana*, 125.  
 Stars, Proper Motion determined,  
     300, 301.  
 State Scientific Survey, Memorial  
     on, 184.  
     Action upon, 308, 309.  
 Statutes, Change adopted, 231.



Steamships, Ocean Lanes for, 228.  
 Stephanomeria, 217.  
     intermedia, 208.  
 Sterlingite, 39, 43.  
     Analysis of, 40.  
 Stylopappus elatus, 216.  
     grandiflorus, 216.  
     laciniatus, 216.  
 Sueda, 84, 87.  
     calceoliformis, 89.  
     Californica, 89.  
     depressa, 89.  
     diffusa, 88.  
     fruticosa, 88, 89.  
     linearis, 87, 88.  
     maritima, 87, 88, 90.  
     occidentalis, 90.  
     prostrata, 89.  
     suffrutescens, 88.  
     Torreyana, 88.  
 Survey, State, Memorial on, 184.  
     Discussion upon, 308, 309.  
 Svanberg, Analysis of Biotite, 46.

## T.

Tanacetum, 203.  
     potentilloides, 204.  
     Sibiricum, 205.  
 Teloxys, 84, 90.  
     aristata, 91.  
     cornuta, 91.  
     Mandoni, 91.  
 Test of natural waters, 78.  
 Tetradychia, 207.

Tetradychia canescens, 207.  
     squamata, 207.  
 Tin Tank, Corrosion of, 219.  
 Torsion Pendulum, Graphical Method applied to, 224.  
 Trichoptilium, 206.  
 Troximom, 215.  
     apargioides, 216.  
     aurantiacum, 215.  
     Chilense, 216.  
     cuspidatum, 211, 215.  
     glaucum, 215.  
     grandiflorum, 216.  
     Nuttallii, 216.  
     parviflorum, 215.  
     retrosum, 216.  
     roseum, 216.

## U.

Uropappus grandiflorus, 211.  
     heterocarpus, 211.  
     linearifolius, 211.

## V.

Vermiculites, 35.

## W.

Waters, Natural, Practical test of, 78.  
 Whitneya, 195.